

WHAT IS CLAIMED IS:

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1. A cathode ray tube comprising:
  - a panel on which a phosphor screen is formed;
  - a cylindrical neck in which an electron gun assembly for generating electron beams is arranged;
  - a funnel formed between the panel and the neck, and having a rectangular cone portion formed contiguous to the neck;
  - an anode button provided on the funnel to supply a voltage in the funnel; and
  - an inner graphite layer disposed on an inner surface of the funnel to form a path for transmission of the voltage,  
wherein the inner graphite layer satisfies the following condition:
$$0.9 \leq T_d / T_h \leq 1.36$$
where  $T_d$  is a thickness of the inner graphite layer on inside corners of the cone portion, and  $T_h$  is a thickness of the inner graphite layer disposed on inside horizontal walls of the cone portion.

*Proprietary Material*

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2. A cathode ray tube comprising:
  - a panel on which a phosphor screen is formed;
  - a cylindrical neck in which an electron gun assembly for generating electron beams is arranged;
  - a funnel formed between the panel and the neck, and having a

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*and*

rectangular cone portion formed contiguous to the neck;

an anode button provided on the funnel to supply a voltage in the funnel; and

an inner graphite layer disposed on an inner surface of the funnel to form a path for transmission of the voltage;

wherein the inner graphite layer satisfies the following condition:

$$0.9 \leq T_d / T_v \leq 1.36$$

where  $T_d$  is a thickness of the inner graphite layer on inside corners of the cone portion, and  $T_v$  is a thickness of the inner graphite layer disposed on inside vertical walls of the cone portion.

EPOXY RESIN

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